

**PATENT APPLICATION**  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: Q94942

Philip MEILLAND, et al.

Appln. No.: 10/579,533

Group Art Unit: 3644

Confirmation No.: 8482

Examiner: not yet assigned

Filed: January 24, 2007

For: METHOD AND SYSTEM FOR THE DETECTION OF SURFACE DEFECTS ON A  
METAL PRODUCT AS IT IS BEING CONTINUOUSLY CAST

**REQUEST FOR CORRECTED OFFICIAL FILING RECEIPT**

**ATTN:** Office of Initial Patent Examination  
Filing Receipt Correction  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

We enclose a copy of the Official Filing Receipt for the above-identified application and  
request the following correction:

**Applicants:** Philip Meilland, Entrange, FRANCE

Jean-Michel Turon, Plappeville, FRANCE

Fabien Midroit, Metz, FRANCE

**Assignment For Published Patent Application:** Arcelor France

REQUEST FOR CORRECTED OFR  
U.S. Appln. No.: 10/579,533

Attorney Docket No.: Q94942

Verification for the requested correction is indicated on the Assignment and Declaration  
and Power of Attorney filed January 24, 2007.

Respectfully submitted,



---

Richard C. Turner  
Registration No. 29,710

SUGHRUE MION, PLLC  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860

WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

Date: October 9, 2007



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov

APPL NO.	FILING OR 371(c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLMS	IND CLMS
10/579,533	01/24/2007	3644	1030	Q94942	7	2

CONFIRMATION NO. 8482

23373  
 SUGHRUE MION, PLLC  
 2100 PENNSYLVANIA AVENUE, N.W.  
 SUITE 800  
 WASHINGTON, DC 20037

## FILING RECEIPT



\*OC000000025690527\*

DOCKETED

SEP 11 2007

Date Mailed: 09/10/2007

Receipt is acknowledged of this nonprovisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Philip Meilland, Entringe, FRANCE;

Jean-Michel Turon, Plappeville, FRANCE

Fabien Midroit, Metz, FRANCE

Assignment For Published Patent Application:

Power of Attorney: The patent practitioners associated with Customer Number 23373.

ARCELOR  
France

## Domestic Priority data as claimed by applicant

This application is a 371 of PCT/FR04/02802 10/29/2004

## Foreign Applications

FRANCE 0313498 11/18/2003

If Required, Foreign Filing License Granted: 11/28/2006

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US10/579,533**

Projected Publication Date: 12/13/2007

Non-Publication Request: No

Early Publication Request: No

**Title**

Method and System for the Detection of Surface Defects on a Metal Product as it is Being Continuously Cast

**Preliminary Class**

244

## **PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES**

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

---

### **LICENSE FOR FOREIGN FILING UNDER Title 35, United States Code, Section 184 Title 37, Code of Federal Regulations, 5.11 & 5.15**

#### **GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

#### **NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

# ASSIGNMENT

In consideration of the sum of One dollar (US\$ 1.00) in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned,

1/ MEILLAND Philip, a French citizen, residing at:  
1 rue de Molvange - 57330 ENTRANGE - FRANCE

2/ TURON Jean-Michel, a French citizen, residing at:  
9 rue de la Mouée - 57050 PLAPPEVILLE - FRANCE

3/ MIDROIT Fabien, a French citizen, residing at:  
19 rue Dupont des Loges - 57000 METZ - FRANCE

hereby sell, assign and transfer to:

ARCELOR France  
1 à 5, rue Luigi Cherubini - 93200 SAINT DENIS - FRANCE

(hereinafter called the Assignee) the entire right, title and interest in and to any and all improvements which are disclosed in the application for United States Letters Patent entitled

**METHOD AND SYSTEM FOR THE DETECTION OF SURFACE DEFECTS ON A METAL PRODUCT AS IT IS BEING CONTINUOUSLY CAST**

which application was filed by the undersigned on October 29, 2004 as PCT application No. PCT/FR04/02802, including any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals or continuations thereof, and the right to all benefits under the International Convention for the Protection of Industrial property.

It is hereby authorized and requested that the Commissioner of Patents and Trademarks issue any and all said Letters Patent, when granted, to said Assignee.

Further, it is agreed that, when requested, without charge to but at the expense of said Assignee, the undersigned will execute all divisional, continuing, substitute, renewal, and reissue patent applications; execute all rightful other papers, and generally do everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection.

Signed at \_\_\_\_\_

this day of \_\_\_\_\_

Inventor(s)

MEILLAND Philip

TURON Jean-Michel

MIDROIT Fabien

*Philip Meilland*  
*Philip Meilland*  
ENTRANGE, 03/07/06

*Jean-Michel Turon*  
*Turon*  
PLAPPEVILLE, 06/07/06

## ASSIGNMENT

In consideration of the sum of One dollar (US\$ 1.00) in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned,

1/ MEILLAND Philip, a French citizen, residing at:  
1 rue de Molvange - 57330 ENTRANGE - FRANCE

2/ TURON Jean-Michel, a French citizen, residing at:  
9 rue de la Mouée - 57050 PLAPPEVILLE - FRANCE

3/ MIDROIT Fabien, a French citizen, residing at:  
19 rue Dupont des Loges - 57000 METZ - FRANCE

hereby sell, assign and transfer to:

ARCELOR France  
1 à 5, rue Luigi Cherubini - 93200 SAINT DENIS - FRANCE

(hereinafter called the Assignee) the entire right, title and interest in and to any and all improvements which are disclosed in the application for United States Letters Patent entitled

METHOD AND SYSTEM FOR THE DETECTION OF SURFACE DEFECTS ON A METAL PRODUCT AS IT IS BEING CONTINUOUSLY CAST

which application was filed by the undersigned on October 29, 2004 as PCT application No. PCT/FR04/02802, including any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals or continuations thereof, and the right to all benefits under the International Convention for the Protection of Industrial property.

It is hereby authorized and requested that the Commissioner of Patents and Trademarks issue any and all said Letters Patent, when granted, to said Assignee.

Further, it is agreed that, when requested, without charge to but at the expense of said Assignee, the undersigned will execute all divisional, continuing, substitute, renewal, and reissue patent applications; execute all rightful other papers, and generally do everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection.

Signed at METZ

this day of 23/06/06

Inventor(s)

MEILLAND Philip

TURON Jean-Michel

MIDROIT Fabien



**DECLARATION AND POWER OF ATTORNEY FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)**

As a below named inventor, I hereby declare that: My residence, mailing address, and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Method and system for the detection of surface defects on a metal product as it is being continuously cast

the application of which

☐ is attached hereto

OR

x was filed on

October 29, 2004

as United States Application Number or PCT International Application Number PCT/FR04/02802

(Confirmation No. \_\_\_\_\_), and was amended on

\_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part application(s), material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application(s) which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application(s) having a filing date before that of the application on which priority is claimed.

Prior Application Number(s)	Country	Filing Date	Priority Claimed	
			Yes	No
<u>0313498</u>	<u>FRANCE</u>	<u>18.11.2003</u>	<u>X</u>	<input type="checkbox"/>

I hereby claim benefit under 35 United States Code §119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date
-----------------------	-------------

I hereby claim benefit under 35 United States Code §120 of any United States application(s) or §365(c) of any PCT International application(s) designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in a listed prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge my duty to disclose any information material to the patentability of this application as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Prior U.S. or International Application Number(s)	U.S. or International Filing Date	Status
---	-----------------------------------	--------

I hereby appoint all attorneys of **SUGHRUE MION, PLLC** who are listed under the USPTO Customer Number shown below as my attorneys to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, recognizing that the specific attorneys listed under that Customer Number may be changed from time to time at the sole discretion of Sughrue Mion, PLLC, and request that all correspondence about the application be addressed to the address filed under the same USPTO Customer Number.

WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.



<b>NAME OF SOLE OR FIRST INVENTOR:</b>			
Given Name (first and middle [if any]) Philip		Family Name or Surname MEILLAND	
Inventor's Signature <i>Philip Meilland</i>		Date 03/07/06	
Residence: City ENTRANGE	State	Country FRANCE	Citizenship FRENCH
Mailing Address: 1 rue de Molvange – 57330 ENTRANGE - FRANCE			
City ENTRANGE	State	Zip 57330	Country FRANCE
<b>NAME OF SECOND INVENTOR:</b>			
Given Name (first and middle [if any]) Jean-Michel		Family Name or Surname TURON	
Inventor's Signature <i>Jean Michel Turon</i>		Date 06/07/06	
Residence: City PLAPPEVILLE	State	Country FRANCE	Citizenship FRENCH
Mailing Address: 9 rue de la Mouée – 57050 PLAPPEVILLE - FRANCE			
City PLAPPEVILLE	State	Zip 57050	Country FRANCE
<b>NAME OF THIRD INVENTOR:</b>			
Given Name (first and middle [if any]) Fabien		Family Name or Surname MIDROIT	
Inventor's Signature		Date	
Residence: City METZ	State	Country FRANCE	Citizenship FRENCH
Mailing Address: 19 rue Dupont des Loges – 57000 METZ – FRANCE			
City METZ	State	Zip 57000	Country FRANCE
<b>NAME OF FOURTH INVENTOR:</b>			
Given Name (first and middle [if any])		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address:			
City	State	Zip	Country
<b>NAME OF FIFTH INVENTOR:</b>			
Given Name (first and middle [if any])		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address:			
City	State	Zip	Country

**DECLARATION AND POWER OF ATTORNEY FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)**

As a below named inventor, I hereby declare that: My residence, mailing address, and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Method and system for the detection of surface defects on a metal product as it is being continuously cast

the application of which

☐ is attached hereto

OR

x was filed on

October 29, 2004

as United States Application Number or PCT International Application Number PCT/FR04/02802

(Confirmation No. ), and was amended on

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part application(s), material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application(s) which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application(s) having a filing date before that of the application on which priority is claimed.

Prior Application Number(s)	Country	Filing Date	Priority Claimed	
			Yes	No
0313498	FRANCE	18.11.2003	X	<input type="checkbox"/>

I hereby claim benefit under 35 United States Code §119(e) of any United States provisional application(s) listed below.

Application Number(s)

Filing Date

I hereby claim benefit under 35 United States Code §120 of any United States application(s) or §365(c) of any PCT International application(s) designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in a listed prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge my duty to disclose any information material to the patentability of this application as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Prior U.S. or International Application Number(s)	U.S. or International Filing Date	Status
---	-----------------------------------	--------

I hereby appoint all attorneys of **SUGHRUE MION, PLLC** who are listed under the USPTO Customer Number shown below as my attorneys to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, recognizing that the specific attorneys listed under that Customer Number may be changed from time to time at the sole discretion of Sughrue Mion, PLLC, and request that all correspondence about the application be addressed to the address filed under the same USPTO Customer Number.

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

<b>NAME OF SOLE OR FIRST INVENTOR:</b>			
Given Name (first and middle [if any]) Philip		Family Name or Surname MEILLAND	
Inventor's Signature		Date	
Residence: City ENTRANGE	State	Country FRANCE	Citizenship FRENCH
Mailing Address: 1 rue de Moivange – 57330 ENTRANGE - FRANCE			
City ENTRANGE	State	Zip 57330	Country FRANCE
<b>NAME OF SECOND INVENTOR:</b>			
Given Name (first and middle [if any]) Jean-Michel		Family Name or Surname TURON	
Inventor's Signature		Date	
Residence: City PLAPPEVILLE	State	Country FRANCE	Citizenship FRENCH
Mailing Address: 9 rue de la Mouée – 57050 PLAPPEVILLE - FRANCE			
City PLAPPEVILLE	State	Zip 57050	Country FRANCE
<b>NAME OF THIRD INVENTOR:</b>			
Given Name (first and middle [if any]) Fabien		Family Name or Surname MIDROIT	
Inventor's Signature <i>Fabien MIDROIT</i>		Date 23/06/06	
Residence: City METZ	State	Country FRANCE	Citizenship FRENCH
Mailing Address: 19 rue Dupont des Loges – 57000 METZ – FRANCE			
City METZ	State	Zip 57000	Country FRANCE
<b>NAME OF FOURTH INVENTOR:</b>			
Given Name (first and middle [if any])		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address:			
City	State	Zip	Country
<b>NAME OF FIFTH INVENTOR:</b>			
Given Name (first and middle [if any])		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address:			
City	State	Zip	Country